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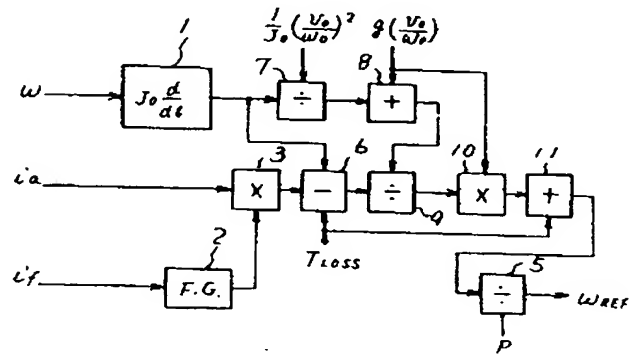
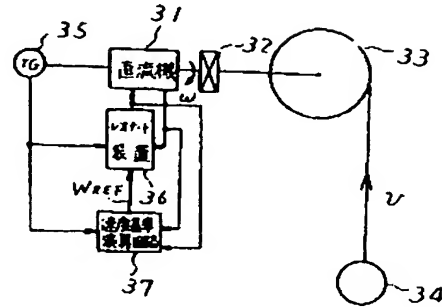
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APPLICANT : TOSHIBA CORP;

INVENTOR : SEKINE SHIGERU;

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TITLE : SPEED REFERENCE CALCULATING CIRCUIT



THE INVENTION

ABSTRACT : PURPOSE: To obtain an accurate speed reference by calculating a speed reference for controlling the constant output with inertial moment as a variable.

CONSTITUTION: A function generator 2 converts a field current if to a field magnetic flux ϕ , and a multiplier 3 multiplies the flux ϕ by an armature current i_a to obtain a motor torque. A subtractor 6 subtracts differentiated values of loss torque TLOSS and a speed signal from a motor torque (J_0 : inertial moment which does not vary by the load). Then, a load weight is obtained through a divider 7, an adder 8 and a divider 8. (v_0 : speed of load 34, w_0 : speed of motor 1) Further, speed reference $W_{REF} = P / (W_g \cdot v_0 / w_0 + T_{LOSS})$ is calculated through a multiplier 10, an adder 11 and a divider 5 and applied to a Leonard controller 3.

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